

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: IRiS

Report Number: P1305474

Luminaire Tested: P3SQAS02R509024DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1305474
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS02R509024DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R50 optic, 2400K CCT AND, 90CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

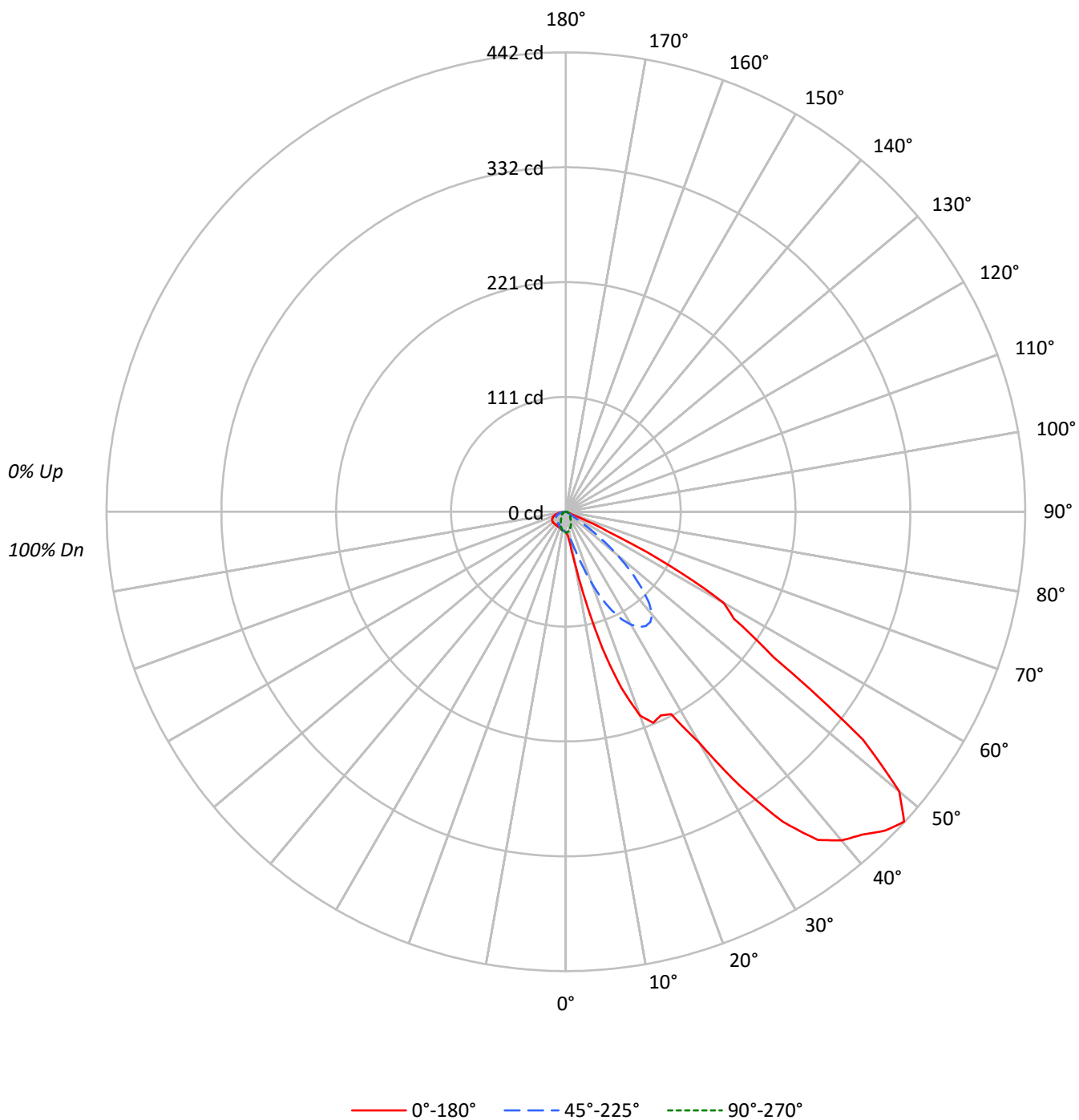
Lumens per Lamp: N/A
Luminaire Lumens: 249.0 lumens
Efficiency: N/A
Efficacy: 69.2 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.83 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94		95	93	91		92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81	78	75	73
3	91	81	73	67	89	80	72	66	77	70	65		74	69	64		71	67	63	61
4	83	71	63	56	81	70	62	56	67	60	55		65	59	54		63	58	53	51
5	76	63	54	47	74	62	53	47	60	52	46		58	51	46		56	50	45	43
6	69	56	47	40	67	55	46	40	53	45	39		51	44	39		50	43	39	37
7	63	50	41	34	62	49	40	34	47	39	34		46	39	34		44	38	33	31
8	58	44	36	30	57	44	35	29	42	35	29		41	34	29		40	34	29	27
9	54	40	31	26	53	39	31	26	38	31	25		37	30	25		36	30	25	23
10	50	36	28	23	49	36	28	22	35	27	22		34	27	22		33	27	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3410	3410	3410	3410	3410
5°	4045	3786	3388	3233	3198
10°	8726	4704	3235	3130	3165
15°	24159	7702	2906	2995	3102
20°	38195	13526	2529	2877	3042
25°	41065	19858	2166	2774	3059
30°	50989	24938	1889	2744	3162
35°	76508	28215	1619	2754	3343
40°	92783	29002	1461	2855	3530
45°	105705	24892	1413	3044	3873
50°	112183	17174	1447	3296	4314
55°	73294	6906	1411	3543	4774
60°	60450	1171	1412	3858	5270
65°	18216	611	1304	4116	5787
70°	755	655	1309	4230	6294
75°	732	732	1264	4325	6854
80°	595	595	1289	4265	7042
85°	395	790	1778	4347	6719

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 112548 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.1	0.8
10°-20°	11.8	4.7
20°-30°	30.3	12.2
30°-40°	54.4	21.9
40°-50°	72.7	29.2
50°-60°	55.4	22.2
60°-70°	16.8	6.8
70°-80°	4.0	1.6
80°-90°	1.4	0.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	44.2	17.7
0°-40°	98.6	39.6
0°-60°	226.7	91.1
0°-90°	249.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	249.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	20	20	20	20	20	
5°	23	22	20	19	18	3
15°	136	43	16	17	17	40
25°	216	104	11	15	16	103
35°	364	134	8	13	16	223
45°	434	102	6	12	16	332
55°	244	23	5	12	16	243
65°	45	2	3	10	14	62
75°	1	1	2	6	10	1
85°	0	0	1	2	3	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8
2.5°	21.1	21.1	21.1	21.1	21.1	21.1	20.9	20.9	20.9	20.4	20.0
5°	23.4	23.7	23.4	23.4	23.0	23.0	22.6	22.6	21.9	20.6	19.6
7.5°	30.8	30.5	30.3	29.5	28.8	27.3	26.7	25.6	23.7	20.6	19.1
10°	49.9	48.6	47.7	45.8	41.7	39.1	35.7	32.3	26.9	20.6	18.5
12.5°	86.7	86.5	83.9	77.4	71.6	63.7	55.3	46.9	33.1	20.2	17.6
15°	135.5	133.6	129.9	122.4	112.1	99.6	84.5	69.7	43.2	19.6	16.3
17.5°	177.2	174.9	172.1	164.5	152.7	137.0	118.9	98.5	57.0	18.7	15.1
20°	208.4	206.9	204.5	198.5	187.3	173.1	152.9	128.2	73.8	17.6	13.8
22.5°	219.8	219.6	220.0	217.9	212.3	201.1	181.7	155.9	90.3	16.3	12.5
25°	216.1	215.9	218.7	221.5	222.8	218.3	203.5	178.3	104.5	15.3	11.4
27.5°	219.6	218.9	217.7	218.1	221.7	224.3	217.4	195.5	116.8	13.8	10.3
30°	256.4	252.7	246.9	237.0	229.7	229.1	226.0	209.0	125.4	12.3	9.5
32.5°	313.8	309.3	298.7	280.5	263.0	249.7	240.2	220.4	131.4	10.8	8.4
35°	363.9	360.7	348.4	330.3	305.4	280.5	263.2	237.2	134.2	9.5	7.7
37.5°	397.9	396.6	384.5	365.2	339.8	310.3	287.6	254.4	133.6	8.0	7.1
40°	412.7	408.9	398.7	382.4	356.8	330.3	306.3	265.4	129.0	6.5	6.5
42.5°	421.5	417.2	406.3	390.8	365.6	337.4	308.4	260.7	118.3	5.2	6.2
45°	434.0	429.5	415.1	398.5	373.1	340.5	300.0	243.9	102.2	3.9	5.8
47.5°	441.5	438.5	427.8	411.2	380.5	336.2	280.7	228.2	84.3	3.0	5.6
50°	418.7	415.7	407.8	396.4	375.7	321.7	263.7	202.8	64.1	2.4	5.4
52.5°	360.5	363.0	364.5	367.8	352.7	289.5	238.3	182.6	43.2	1.9	4.9
55°	244.1	248.0	252.3	265.2	282.8	257.7	211.6	157.9	23.0	1.9	4.7
57.5°	191.8	190.6	189.3	188.4	202.2	212.5	186.0	126.2	9.9	1.9	4.3
60°	175.5	171.6	169.0	169.7	176.6	172.5	147.3	82.4	3.4	1.9	4.1
62.5°	115.1	118.1	123.9	133.8	129.0	110.8	85.6	32.7	1.7	1.9	3.7
65°	44.7	43.2	44.7	47.5	41.1	30.5	19.1	5.8	1.5	1.7	3.2
67.5°	6.0	5.4	4.1	2.6	2.4	2.2	1.7	1.5	1.5	1.7	3.0
70°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.3	1.3	1.5	2.6
72.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.5	2.2
75°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.3	1.9
77.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1	1.5
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.9	1.3
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.6	0.9	1.1
85°	0.2	0.4	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.9
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.6	0.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	19.8	19.8	19.8	19.8
2.5°	19.6	19.1	19.1	19.1
5°	19.1	18.7	18.7	18.5
7.5°	18.5	18.3	18.3	18.3
10°	18.1	17.9	18.1	18.1
12.5°	17.2	17.4	17.6	17.6
15°	16.3	16.8	17.2	17.4
17.5°	15.5	16.3	16.8	17.0
20°	14.6	15.7	16.3	16.6
22.5°	14.0	15.1	15.9	16.3
25°	13.1	14.6	15.7	16.1
27.5°	12.3	14.0	15.3	15.9
30°	11.6	13.8	15.3	15.9
32.5°	11.0	13.3	15.1	15.7
35°	10.5	13.1	15.1	15.9
37.5°	10.1	12.9	15.1	15.7
40°	9.9	12.7	15.1	15.7
42.5°	9.7	12.7	15.1	15.9
45°	9.2	12.5	15.1	15.9
47.5°	9.0	12.5	15.1	15.9
50°	8.8	12.3	15.1	16.1
52.5°	8.6	12.0	15.1	16.1
55°	8.2	11.8	14.8	15.9
57.5°	8.0	11.6	14.6	15.5
60°	7.5	11.2	14.2	15.3
62.5°	7.1	10.8	13.8	14.6
65°	6.5	10.1	13.1	14.2
67.5°	5.8	9.2	12.5	13.5
70°	5.2	8.4	11.6	12.5
72.5°	4.5	7.5	10.8	11.4
75°	3.9	6.5	9.5	10.3
77.5°	3.2	5.6	8.0	8.6
80°	2.4	4.3	6.5	7.1
82.5°	1.9	3.2	4.7	5.2
85°	1.3	2.2	3.0	3.4
87.5°	0.6	1.1	1.5	1.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)